

Data sheet for SIMOTICS S-1FK7 servo geared motor

Article No. : 1FK7061-4CH71-1RG0-Z
V40

Client order no. :
Order no. :
Offer no. :
Remarks :

Item no. :
Consignment no. :
Project :



Figure similar

Engineering data

Rated speed (100 K)	4,500 rpm
Number of poles	6
Rated torque (100 K)	4.3 Nm
Rated current	6.2 A
Static torque (60 K)	5.30 Nm
Static torque (100 K)	6.40 Nm
Stall current (60 K)	7.10 A
Stall current (100 K)	8.70 A
Moment of inertia	6.300 kgcm ²

Physical constants

Torque constant	0.73 Nm/A
Voltage constant at 20° C	47.0 V/1000*min ⁻¹
Winding resistance at 20° C	0.35 Ω
Rotating field inductance	10.7 mH
Electrical time constant	30.50 ms
Mechanical time constant	0.79 ms
Thermal time constant	45 min
Shaft torsional stiffness	36,500 Nm/rad
Net weight of the motor	18.9 kg

Recommended Motor Module

Rated inverter current	9 A
Maximum inverter current	27 A
Maximum torque	17.30 Nm

Mechanical data

Motor type	Permanent-magnet synchronous motor
Motor type	High Dynamic
Shaft height	63
Cooling	Natural cooling
Radial runout tolerance	0.040 mm
Concentricity tolerance	0.10 mm
Axial runout tolerance	0.10 mm
Vibration severity grade	Grade A
Connector size	1
Degree of protection	IP64
Design acc. to Code I	IM B5 (IM V1, IM V3)
Temperature monitoring	Pt1000 temperature sensor
Electrical connectors	Connectors for signals and power rotatable
Color of the housing	Standard (Anthracite RAL 7016)
Holding brake	without holding brake
Shaft end	Plain shaft
Encoder system	Encoder AM20DQI: absolute encoder 20 bits (resolution 1048576, encoder-internal 512 S/R) + 12 bits multi-turn (traversing range 4096 revolutions)

Gearbox data

Gearbox type	Planetary gearbox NP+
Designation	NP 035
Gearbox shaft end	With feather key
Gear ratio + steps	5 (1-step)
Temporary input speed	6,000 rpm
Motor speed S1	2,600 rpm
Output torque S1	125 Nm
Output moment maximum (short-time)	250 Nm
Moment of inertia of gearbox	2.200 kgcm ²
Radial output shaft loading, max.	5,000 N
Axial output shaft load, max.	0 N
Efficiency of gearbox	0.97
Torsional backlash	8 '
Gearbox weight	9.40 kg

Limiting data

Max. permissible speed (mech.)	7,500 rpm
Max. permissible speed (inverter)	7,500 rpm
Maximum torque	17.3 Nm
Maximum current	26.5 A



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Figure similar

Special design

V40 Mounting of NP+ planetary gearbox

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